

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT** of:

Ariela Zeira

Patent No.: 7,346,103

Issued: March 18, 2008

Appln. No.: 10/748,544

Filed: December 30, 2003

Confirmation No.: 8569

For: MULTI USER DETECON USING
EQUALIZATION AND SUCCESSIVE
INTERFERENCE CANCELLATION

Our File: I-2-0472.1US

Date: May 7, 2008

REQUEST FOR CERTIFICATE OF CORRECTION

Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

A Certificate of Correction under 35 U.S.C. §§ 254, 255 and 37 C.F.R. §§1.322, 1.323 is requested for U.S. Patent No. 7,346,103. Correction of the following errors is requested.

ON THE FACE PAGE

At section (56), OTHER PUBLICATIONS, page 1, right column, line 11, on line beginning with "Misra et al.", after the word "Hybrid", insert --of--.

IN THE SPECIFICATION

At column 2, line 6, after the word "vector", delete "r" and insert therefor --r--.

At column 2, line 39, after the word "vector", delete "r" and insert therefor --r--.

At column 2, line 41, after the word "segments", delete " $r_1 \dots r_n$ " and insert therefor -- $r_1 \dots r_n$ --.

At column 2, line 42, after the word "vector", delete "r" and insert therefor --r--.

At column 2, line 44, after the word "vector", delete "r" and insert therefor --r--.

At column 2, line 45, after the first use of the word "segments", delete " $r_1 \dots r_n$ " and insert therefor -- $r_1 \dots r_n$ --.

At column 2, line 45, after the words "only segments", delete " $r_1, r_2, r_3, r_4, r_5, r_6, r_7, r_8$ " and insert therefor -- $r_1, r_2, r_3, r_4, r_5, r_6, r_7, r_8$ --.

At column 2, line 46, before the word "shown", delete " r_9 " and insert therefor -- r_9 --.

At column 2, lines 47 & 48, after the words "overlap is", delete "preferably twice the length the impulse response less one chip, $2*(W-1)$ " and insert therefor --at least two chips less than twice an impulse response length--.

At column 2, line 54,, after the words "interest of", delete " r_2 " and insert therefor -- r_2 --.

At column 3, line 18, after the word "segment", delete " r_i " and insert therefor -- r_i --.

At column 3, line 20, after the word "segments", delete " $r_i, x_{i1}, \dots, x_{iK-1}$ " and insert therefor -- $\underline{r}_i, \underline{x}_{i1}, \dots, \underline{x}_{iK-1}$ --.

At column 3, line 21, after the word "vectors", delete " $s_{i1}, s_{i2}, \dots, s_{iK}$ " and insert therefor -- $\underline{s}_{i1}, \underline{s}_{i2}, \dots, \underline{s}_{iK}$ --.

At column 3, line 23, after the word "vectors", delete " $s_{i1}, s_{iK}, \dots, s_{iK}$ " and insert therefor -- $\underline{s}_{i1}, \underline{s}_{i2}, \dots, \underline{s}_{iK}$ --.

At column 3, line 25, after the word "vectors", delete " $d_{i1}, d_{i2}, \dots, d_{iK}$ " and insert therefor -- $\underline{d}_{i1}, \underline{d}_{i2}, \dots, \underline{d}_{iK}$ --.

At column 3, line 28, after the words "contributions", delete " r_{i1}, r_{i2}, \dots " and insert therefor -- $\underline{r}_{i1}, \underline{r}_{i2}, \dots$ --.

At column 3, line 29, after the word "vector", delete " s_{i1}, s_{i2}, \dots " and insert therefor -- $\underline{s}_{i1}, \underline{s}_{i2}, \dots$ --.

At column 3, line 31, after "butions", delete " r_{i1}, r_{i2}, \dots " and insert therefor -- $\underline{r}_{i1}, \underline{r}_{i2}, \dots$ --.

At column 3, line 32, after the words "segments", delete " r_i, x_{i1}, \dots " and insert therefor -- $\underline{r}_i, \underline{x}_{i1}, \dots$ --.

At column 3, line 35, after the word "segment", delete " r_i is equalized by a" and insert therefor -- \underline{r}_i is equalized by an--.

At column 3, line 37, after the word "vector", delete " s_{i1} " and insert therefor -- \underline{s}_{i1} --.

At column 3, line 41, after the word "vector", delete " d_1 " and insert therefor \underline{d}_1 .

At column 3, line 43, after "mined", delete " r_1 " and insert therefor \underline{r}_1 .

At column 3, line 45, after the word "segment", delete " x_1 " and insert therefor \underline{x}_1 .

At column 3, line 48, after the word "symbols", delete " d_2 " and insert therefor \underline{d}_2 .

At column 3, line 49, after the word "vector", delete " S_2 " and insert therefor \underline{S}_2 .

At column 3, lines 50 & 51, after the words "user 2 to", delete " X_{i1}, r_{i2} " and insert therefor $\underline{x}_{i1}, \underline{r}_{i2}$.

At column 3, line 53, after the word "segment", delete " x_{iK-1} which is vector r_i " and insert therefor \underline{x}_{iK-1} which is vector \underline{r}_i .

At column 3, line 55, after the word "symbols", delete " d_K " and insert therefor \underline{d}_K .

At column 3, line 56, after the word "vector", delete " s_K " and insert therefor \underline{s}_K .

At column 3, line 59, before the word "signals", delete "users" and insert therefor $\underline{user's}$.

At column 4, line 2, before the word "data", delete "groups" and insert therefor --group's--.

At column 4, line 6, after the words "such as", delete " d_i " and insert therefor -- \underline{d}_i --.

At column 4, line 11, after the words "vector", delete "d" and insert therefor -- \underline{d} --.

At column 4, line 14, after the word "segment 1", delete " d_{11} " and insert therefor -- \underline{d}_{11} --.

At column 4, line 15, after the word "segment 2", delete " d_{12} " and insert therefor -- \underline{d}_{12} --.

At column 4, line 17, after the word "vector", delete "r" and insert therefor -- \underline{r} --.

At column 4, line 19, after the word "segmented", delete " $r_1 \dots r_n$ " and insert therefor -- $\underline{r}_1 \dots \underline{r}_n$ --.

At column 4, line 32, after the word "vector", delete "d" and insert therefor -- \underline{d} --.

At column 4, delete Equation 1, and insert therefor -- $\underline{r} = H\underline{s} + \underline{n}$ --.

At column 4, line 44, after the word "matrix", delete "n is the noise vector. s" and insert therefor -- \underline{n} is the noise vector. \underline{s} --.

At column 4, line 47, before the words "for the", delete "d" and insert therefor -- \underline{d} --.

At column 4, delete Equation 2, and insert therefor -- $\underline{s} = C\underline{d}$ --.

At column 4, line 52, after the word "segment", delete "r₁" and insert therefor --r₁--.

At column 4, delete Equation 4A, and insert therefor -- $\hat{\underline{s}}_i = (\mathbf{H}_s^H \mathbf{H}_s + \sigma^2 \mathbf{I}_s)^{-1} \mathbf{H}_s^H \underline{\mathbf{r}}_i$ --.

At column 4, line 61, before the word "operation", delete "Hermetian" and insert therefor --Hermitian--.

At column 4, delete Equation 4B, and insert therefor -- $\hat{\underline{s}}_i = (\mathbf{H}_s^H \mathbf{H}_s)^{-1} \mathbf{H}_s^H \underline{\mathbf{r}}_i$ --.

At column 4, delete Equation 5, and insert therefor -- $\hat{\underline{s}}_i = \mathbf{R}_s^{-1} \mathbf{H}_s^H \underline{\mathbf{r}}_i$ --.

At column 5, line 35, before the word "product", delete "kronecker" and insert therefor --Kronecker--.

At column 5, line 37, after the word "vector", delete "F(\hat{s})" and insert therefor --F(\hat{s})--.

At column 5, line 38, after the word "vector", delete " \hat{s} " and insert therefor -- \hat{s} --.

IN THE CLAIMS

At claim 1, column 5, lines 41 & 42, after the word "signals", delete "in a wireless communication system, the method".

At claim 7, column 6, lines 1 & 2, after the word "signals", delete "in a wireless communication system, the method".

At claim 22, column 7, line 18, before the word "determined", delete "segments" and insert therefor --segment's--.

At claim 28, column 7, line 52, before the word "determined", delete "segments" and insert therefor --segment's--.

At claim 34, column 8, line 19, before the word "determined", delete "segments" and insert therefor --segment's--.

At claim 40, column 8, line 51, after the word "each", delete "segment" and insert therefor --segment's--.

At claim 41, column 8, line 56, after the word "equalize", delete "equalizing".

At claim 46, column 9, line 18, before the word "determined", delete "segments" and insert therefor --segment's--.

At claim 52, column 9, line 51, after the word "each", delete "segment" and insert therefor --segment's--.

At claim 58, column 10, line 19, before the word "determined", delete "segments" and insert therefor --segment's--.

Patentee: Ariela Zeira
Patent No.: 7,346,103

REMARKS


Patentee believes that the above errors are of such a nature as to justify the issuance of a Certificate of Correction. Patentee has enclosed a completed Certificate of Correction Form PTO/SB/44.

Since at least one of the errors was caused by Applicant, please charge the surcharge fee pursuant to C.F.R. §1.20(a) of \$100.00 to the Deposit Account of InterDigital Communications Corporation, Deposit Account No. 09-0435.

Patentee respectfully requests that the Certificate of Correction be issued.

Respectfully submitted,

Ariela Zeira

By 
Robert D. Leonard
Registration No. 57,204
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Philadelphia, PA 19103

RDL/dcb

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 8

PATENT NO. : 7,346,103

APPLICATION NO.: 10/748,544

ISSUE DATE : March 18, 2008

INVENTOR(S) : Ariela Zeira

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ON THE FACE PAGE

At section (56), OTHER PUBLICATIONS, page 1, right column, line 11, on line beginning with "Misra et al.", after the word "Hybrid", insert --of--.

IN THE SPECIFICATION

At column 2, line 6, after the word "vector", delete "r" and insert therefor -- \underline{r} --.

At column 2, line 39, after the word "vector", delete "r" and insert therefor -- \underline{r} --.

At column 2, line 41, after the word "segments", delete " $r_1 \dots r_n$ " and insert therefor -- $\underline{r}_1 \dots \underline{r}_n$ --.

At column 2, line 42, after the word "vector", delete "r" and insert therefor -- \underline{r} --.

At column 2, line 44, after the word "vector", delete "r" and insert therefor -- \underline{r} --.

At column 2, line 45, after the first use of the word "segments", delete " $r_1 \dots r_n$ " and insert therefor -- $\underline{r}_1 \dots \underline{r}_n$ --.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Volpe and Koenig, P.C.
United Plaza, Suite 1600
30 South 17th Street
Philadelphia, PA 19103

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 2, line 45, after the words "only segments", delete "r₁, r₂, r₃, r₄, r₅, r₆, r₇, r₈" and insert therefor --L₁, L₂, L₃, L₄, L₅, L₆, L₇, L₈--.

At column 2, line 46, before the word "shown", delete "r₉" and insert therefor --L₉--.

At column 2, lines 47 & 48, after the words "overlap is", delete "preferably twice the length the impulse response less one chip, 2*(W-1)" and insert therefor --at least two chips less than twice an impulse response length--.

At column 2, line 54,, after the words "interest of", delete "r₂" and insert therefor --L₂--.

At column 3, line 18, after the word "segment", delete "r₁" and insert therefor --L₁--.

At column 3, line 20, after the word "segments", delete "r_i, x_{i1}, ..., x_{iK-1}" and insert therefor --L_i, L_{i1}, ..., L_{iK-1}--.

At column 3, line 21, after the word "vectors", delete "s_{i1}, s_{i2}, ..., s_{iK}" and insert therefor --L_{i1}, L_{i2}, ..., L_{iK}--.

At column 3, line 23, after the word "vectors", delete "s_{i1}, s_{iK}, ..., s_{iK}" and insert therefor --L_{i1}, L_{i2}, ..., L_{iK}--.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 3, line 25, after the word "vectors", delete " $d_{i1}, d_{i2}, \dots, d_{iK}$ " and insert therefor -- $\underline{d}_{i1}, \underline{d}_{i2}, \dots, \underline{d}_{iK}$ --.

At column 3, line 28, after the words "contributions", delete " r_{i1}, r_{i2}, \dots " and insert therefor -- $\underline{r}_{i1}, \underline{r}_{i2}, \dots$ --.

At column 3, line 29, after the word "vector", delete " s_{i1}, s_{i2}, \dots " and insert therefor -- $\underline{s}_{i1}, \underline{s}_{i2}, \dots$ --.

At column 3, line 31, after "butions", delete " r_{i1}, r_{i2}, \dots " and insert therefor -- $\underline{r}_{i1}, \underline{r}_{i2}, \dots$ --.

At column 3, line 32, after the words "segments", delete " r_i, x_{i1}, \dots " and insert therefor -- $\underline{r}_i, \underline{x}_{i1}, \dots$ --.

At column 3, line 35, after the word "segment", delete " r_i is equalized by a" and insert therefor -- \underline{r}_i is equalized by an--.

At column 3, line 37, after the word "vector", delete " s_{i1} " and insert therefor -- \underline{s}_{i1} --.

At column 3, line 41, after the word "vector", delete " d_{i1} " and insert therefor -- \underline{d}_{i1} --.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 3, line 43, after "mined", delete " r_{i1} " and insert therefor -- \underline{r}_{i1} --.

At column 3, line 45, after the word "segment", delete " x_{i1} " and insert therefor -- \underline{x}_{i1} --.

At column 3, line 48, after the word "symbols", delete " d_{i2} " and insert therefor -- \underline{d}_{i2} --.

At column 3, line 49, after the word "vector", delete " S_{i2} " and insert therefor -- \underline{S}_{i2} --.

At column 3, lines 50 & 51, after the words "user 2 to", delete " X_{i1}, r_{i2} " and insert therefor -- $\underline{X}_{i1}, \underline{r}_{i2}$ --.

At column 3, line 53, after the word "segment", delete " x_{ik-1} which is vector r_{i1} " and insert therefor -- \underline{x}_{ik-1} which is vector \underline{r}_{i1} --.

At column 3, line 55, after the word "symbols", delete " d_{ik} " and insert therefor -- \underline{d}_{ik} --.

At column 3, line 56, after the word "vector", delete " s_{ik} " and insert therefor -- \underline{s}_{ik} --.

At column 3, line 59, before the word "signals", delete "users" and insert therefor --user's--.

At column 4, line 2, before the word "data", delete "groups" and insert therefor --group's--.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 4, line 6, after the words "such as", delete "d_i" and insert therefor --d--.

At column 4, line 11, after the words "vector", delete "d" and insert therefor --d--.

At column 4, line 14, after the word "segment 1", delete "d₁₁" and insert therefor --d₁₁--.

At column 4, line 15, after the word "segment 2", delete "d₁₂" and insert therefor --d₁₂--.

At column 4, line 17, after the word "vector", delete "r" and insert therefor --r--.

At column 4, line 19, after the word "segmented", delete "r₁ ... r_n" and insert therefor --r₁ ... r_n--.

At column 4, line 32, after the word "vector", delete "d" and insert therefor --d--.

At column 4, delete Equation 1, and insert therefor --r = Hs + n--.

At column 4, line 44, after the word "matrix", delete "n is the noise vector. s" and insert therefor --n is the noise vector. s--.

At column 4, line 47, before the words "for the", delete "d" and insert therefor --d--.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 4, delete Equation 2, and insert therefor $--\underline{s} = C_d--$.

At column 4, line 52, after the word "segment", delete " r_i " and insert therefor $--\underline{E}--$.

At column 4, delete Equation 4A, and insert therefor $--\hat{\underline{s}}_i = (H_s^H H_s + \sigma^2 I_k)^{-1} H_s^H \underline{E}_i--$.

At column 4, line 61, before the word "operation", delete "Hermetian" and insert therefor $--\text{Hermitian}--$.

At column 4, delete Equation 4B, and insert therefor $--\hat{\underline{s}}_i = (H_s^H H_s)^{-1} H_s^H \underline{E}_i--$.

At column 4, delete Equation 5, and insert therefor $--\hat{\underline{s}}_i = R_s^{-1} H_s^H \underline{E}_i--$.

At column 5, line 35, before the word "product", delete "kronecker" and insert therefor $--\text{Kronecker}--$.

At column 5, line 37, after the word "vector", delete " $F(\hat{s})$ " and insert therefor $--F(\underline{s})--$.

At column 5, line 38, after the word "vector", delete " \hat{s} " and insert therefor $--\underline{s}--$.

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At claim 1, column 5, lines 41 & 42, after the word "signals", delete "in a wireless communication system, the method".

At claim 7, column 6, lines 1 & 2, after the word "signals", delete "in a wireless communication system, the method".

At claim 22, column 7, line 18, before the word "determined", delete "segments" and insert therefor --segment's--.

At claim 28, column 7, line 52, before the word "determined", delete "segments" and insert therefor --segment's--.

At claim 34, column 8, line 19, before the word "determined", delete "segments" and insert therefor --segment's--.

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At claim 41, column 8, line 56, after the word "equalize", delete "equalizing".

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CERTIFICATE OF CORRECTION**Page 8 of 8

PATENT NO. : 7,346,103

APPLICATION NO.: 10/748,544

ISSUE DATE : March 18, 2008

INVENTOR(S) : Ariela Zeira

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At claim 46, column 9, line 18, before the word "determined", delete "segments" and insert therefor --segment's--.

At claim 52, column 9, line 51, after the word "each", delete "segment" and insert therefor --segment's--.

At claim 58, column 10, line 19, before the word "determined", delete "segments" and insert therefor --segment's--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

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